

New software can reduce coal-plant emissions

New "intelligent controller" software that uses "neural networks" and "fuzzy logic" to help control emissions from coal-burning power plants has been developed by Argonne and Energy Systems Associates (ESA) of Pittsburgh.

The software could be combined with Gas Research Institute's (GRI) Fuel Lean Gas Reburning™ (FLGR) technology, a natural-gas injection process, to help coal-fired power plants meet nitrogen-oxide (NOx) reduction goals more cost-effectively.

Under the Clean Air Act Amendments of 1990, electric utilities in the United States must reduce NOx emissions from fossil-fueled power plants by the turn of the century. One way for a plant to meet its NOx emission limit is to buy NOx credits on the open market. NOx credits are created when a plant emits less than its allowable emission level, and then sells the right to emit the difference to another plant.

"We're trying to give companies an option that's less expensive than buying NOx credits," said Jaques Reifman (RA), who is leading the project for Argonne. Also contributing to the project are Earl Feldman (RA) and Thomas Wei (RE).

Argonne and ESA have developed software that makes it more cost-effective for a power plant to burn natural gas along with coal. The natural gas reburns the NOx gases, converting them to nitrogen, a natural element that makes up

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about 80 percent of the earth's natural atmosphere.

"Since natural gas is more expensive than coal," Reifman said, "we're interested in developing a control system that will help plant operators use natural gas as economically as possible while maintaining the required NOx reductions."

The software is designed to work with GRI's FLGR technology, a system that injects controlled amounts of natural gas into various regions of the upper furnaces of fossil-fueled boilers.

The software can serve as an advisor, notifying operators of coal-fired power plants when nitrogen oxide (NOx) emissions are too high and suggesting adjustments to reduce them, Reifman said. "Initial simulation tests on fossil-fueled boilers showed that this combination consistently leads to higher average NOx reduction and lower average rates of natural gas consumption."

The Argonne-ESA project combines ESA's expertise in fossil-fuel-burning plants and NOx emissions with Argonne's experience in developing "intelligent" software control

programs.

The team's approach is to develop an "intelligent controller" that "learns" about the plant by using artificial intelligence methods, such as neural networks and fuzzy logic, to analyze plant behavior. Neural networks are computer systems that can "learn" complex processes by analyzing their performance data.

Argonne and ESA worked with performance data that ESA compiled at one of ComEd's coal-fired power plants near Joliet, Ill.

"The database includes the amount and distribution of natural gas and the resulting NOx levels," Reifman said. "We provided the database to a neural network and let it discover the relationships between the variables."

The \$100,000, nine-month Phase I project to study the feasibility of the idea was funded by the U.S. Department of Energy. Argonne and ESA are preparing a Phase II proposal to continue their collaboration and develop a prototype software package to commercialize the technology.

ESA is a consulting engineering firm with expertise in combustion powered steam generators.



Argonne Club officers named

Argonne Club officers for 1998-1999 are (seated, left to right) Sara Hahn (XFD), Jeff Goetzen (ASD) and Dan McNamee (EMO). Standing are Larry Kurek (OCF-ACT), Tony Gorski (ASD), Sherry Strahla (ECT), Jack Burke (XFD), Carolyn Arthur (HR) and Patty Gajewski (PFS). Not pictured: Harold Gaines (CMB) and Dean Peters (IPNS). The board coordinates and sponsors laboratory-wide events like the employee picnic and Breakfast with Santa. The board also oversees Argonne Park, the use of Building 951 and the swimming pool, which opens June 8 (see story on page 2).

Planning helps employees and supervisors get the most from performance appraisals

As the laboratory's employees and supervisors pass the halfway mark in the annual performance appraisal cycle, it's a good time to make sure there are no surprises when review meetings begin in October.

"Performance management should be an ongoing process, and not simply an annual event," said John Hyzer (HR), who teaches a class on performance management for supervisors. "There shouldn't be any surprises on the performance appraisal."

To prevent surprises, supervi-

sors are encouraged to schedule regular development meetings with their employees during the year to "discuss challenges and deal with obstacles," Hyzer said. "While nearly all supervisors agree they should schedule more frequent development meetings, many don't. Lack of time, fear of unpleasantness, and the notion that 'I see my people every day — they know what I want,' are common excuses."

Development meetings provide an opportunity to set or review goals, share observations and develop solutions to problems, Hyzer said.

Such meetings can benefit both employee and supervisor.

"Don't ignore your high performers," Hyzer said, "because they too can benefit from development meetings." Supervisors need to formally recognize effort above and beyond expectations if they want that level of performance to continue. High performers may be able to share insight or methods that will benefit other members of the group.

Writing the formal performance appraisal can be a simple summary

(Continued on page 3)

Mayer scholar to speak at colloquium

Jolie Cizewski, 1998 Maria Goeppert Mayer Scholar, will present "The Magic Numbers of Maria Goeppert Mayer: Past, Present and Future," a special colloquium, on Wednesday, May 27.

The talk will begin at 3 p.m. in Argonne-East's Building 203 Auditorium.

Cizewski, professor of physics at Rutgers University, is spending this year at Argonne's Physics Division to conduct research on nuclear structure at the Argonne Tandem Linear Accelerator System and Gammasphere.

The colloquium will be co-hosted by Frank Fradin, associate laboratory director for Physical Research, and Argonne's Women in Science and Technology program. Refreshments will be served at 2:30 p.m.

**Inside this issue ■ Illinois site hit by (simulated) tornado
■ TIAA-CREF videos explain effects of Taxpayer Relief Act**

'Operation Twister' strikes Argonne-East

"Operation Twister," a large emergency exercise held at Argonne-East May 9, brought 18 fire departments and other emergency agencies from Chicago's

western suburbs to deal with a mock tornado strike.

The scenario called for a tornado to rip through Argonne-East's east area, killing four people and

injuring several others, damaging buildings, crushing cars and setting one on fire, knocking down live wires, and otherwise spurring emergency agencies into action. The exercise also simulated a smoky fire in Building 4 and a gas leak.

The exercise tested management, communications and coordination of the many units that would respond to an area disaster. The exercise also demonstrated field activities such as triage, search and rescue, vehicle recovery, and response to various other emergency conditions.

The exercise was staged by the Mutual Aid Box Alarm System (MABAS) Division 10, a mutual aid association of 18 area fire departments. The Loyola University Medical Department, Columbia LaGrange Memorial Hospital, and Good Samaritan Hospital, Downers Grove, also participated.



THAT'S GOTTA HURT — Mike O'Connor (ESH) played the part of a motorist thrown from a car, which then caught fire. His realistic "moulage" — Halloween-style makeup — adds realism to the grisly scene. *Photos by George Joch*



HEAVE HO — Above, before emergency crews could get to the stricken area, five-foot-high logjams simulating downed trees had to be removed with chainsaws, chains attached to fire trucks and plain old muscle power. At left, emergency responders found several simulated tornado victims along the jogging trail near Eastwood Drive, just east of the Sawmill Creek Bridge. Those playing victims included employees from Argonne, local hospitals and colleges.

Video covers tax changes

TIAA-CREF's presentation on the "Taxpayer Relief Act of 1997" is now available on video cassette.

The presentation covers:

- IRAs, including the Roth, educational, and classic IRAs.

- Education provisions, including the Hope credit and the lifetime learning credit.

All employees may borrow this video by calling Human Resources at ext. 2-2989 at Argonne-East or check it out at the library at Argonne-West.

ANL-East pool to open June 8

The Argonne-East pool will open for the summer Monday, June 8.

A special employee-only swim period will be held weekdays from 11:30 a.m. to 1 p.m. Cost is \$1 per person.

Open swim periods are from 1 p.m. to 7 p.m. weekdays and 11 a.m. to 7 p.m. on weekends. Cost is \$2 for adults and \$1.50 for children under 12.

Family season tickets are \$65; individual season tickets are \$35.

Swimmers must provide their own towels. Flotation devices are not allowed in the pool area, and children under 12 must be accompanied by an adult.

Swim lessons

Youth swim lessons begin June 16. There will be two, two-week sessions of eight lessons. Cost is \$20 per session, per child. Lesson tickets cannot be used for open swim periods.

Session 1 will be held June 15-26. Session 2 will be held July 13-24. Lessons last a half-hour and begin at the following times:

- 9 a.m. — Intermediate
- 9:45 a.m. — Intermediate/beginner
- 10:30 a.m. — Beginner

Marriott plans book fair at ANL-E cafeteria

Marriott will hold a book fair at Argonne-East's Building 213 Cafeteria May 26-27.

More than 250 titles will be available at discount prices, including general interest, sports, culinary and children's books.



Argonne News is published weekly for Argonne employees by the Office of Public Affairs. Send news items to Editor Dave Jacqué, Building 201, Room 2Q-02 (OPA-201). Voice: ext. 2-5582. Fax: ext. 2-5274. E-mail: info@anl.gov. Argonne-West correspondent: Dolores Lagerquist, Bldg. 752, ext. 3-7523. Deadline for all materials is 5 p.m. Monday. Argonne National Laboratory is operated by the University of Chicago for the U.S. Department of Energy. Vol. 51, No. 20.

Communication prevents 'surprises' at review

(Continued from page 1)

process if the supervisor has done his homework by establishing and maintaining personal contacts with the employee and observing and documenting performance throughout the year.

"Without proper documentation, supervisors can quickly lose sight of what happened six or seven months ago," Hyzer said.

Employees can help smooth the process by providing a statement of accomplishments prior

to the performance review.

Hyzer suggested these tips for a smooth review:

- Thoroughly review the position description, statement of accomplishments and the completed performance appraisal.

- Schedule the review in a "neutral spot," like a conference room. "Supervisors demonstrate their concern for the employee," Hyzer said, "by selecting a neutral place where the atmosphere can be more open, more candid."

- Be a good listener. Be sure to

clearly understand what the other person said before responding.

- Build on strengths, not weaknesses. The discussion should start on a positive note and be "future oriented," Hyzer said. Focus on what the employee (even a high performer) can do to improve their performance during the upcoming review period. The development plans section of the performance appraisal is the best place to provide an action plan for future growth.

Many classes offered in June

Human Resources will hold classes in a variety of subjects in June at Argonne-East, ranging from Russian language to team building.

Full class descriptions and printable enrollment forms can be found on the Human Resources World Wide Web Home Page at <http://www.anl.gov/HR/home.html>, under "Performance Development."

To register, contact a division Training Management System representative. For more information, call Betty Iwan (HR) at ext. 2-3410.

- Beginning Russian Language (HR164) — Starts Tuesday, June 2, from 10 a.m. - 11:00 a.m. in Building 207, Room FB 101. Cost is \$210.

- Performance Management (HR561) — Monday, June 8, from 1 p.m. - 4 p.m. in Building 362, Room F108. The class is free.

- Introduction to Team Building (HR631) — Thursday, June 11, from 8:30 - 3:30 p.m. in Building 362, Room F108. Cost is \$25.

- Foundations of Quality Management (HR635) — Tuesday, June 16, from 1 p.m. - 5 p.m. in Building 202, Room B169. The class is free.

- Building the Work Relationship (HR630) — Wednesday, June 24, from 1 p.m. - 5 p.m. in Building 202, Room B169. Cost is \$125. Registration deadline is June 1.

'Brown bag' seminars

Three "Brown Bag Lunch Seminars" will be held from 11:30 a.m. - 1 p.m. in Building 201, Room 238. Cost is \$40 for each session.

- Your Attitude Is Showing? (HR228) — Wednesday, June 3, focuses on strategies for beating negativity, eliminating doubts and setting positive goals.

- Thinking on Your Feet (HR229) — Wednesday, June 10, will help participants sharpen thinking skills in a wide variety of situations.

- Concentration (HR230) — Wednesday, June 17, will improve listening, memory and learning habits.

Seminars

Send seminar listings to Evie Fagan, Building 201, Room 2U-09 (OPA-201). Deadline is 5 p.m. Monday. Seminar listings *only* can be sent by e-mail to efagan@anl.gov. Note new e-mail address.

Tuesday, May 26

Chemical Technology and Energy Technology Divisions Joint Seminar: **"Thermochemical Interactions at Metal-Ceramic Interfaces in Electronic Applications"** by David P. Cann, assistant professor, Department of Materials Science & Engineering, Iowa State University, Ames. 10:30 a.m., Bldg. 205, Y-Wing Auditorium.

Wednesday, May 27

High Energy Physics Division Seminar: **"Results from Super-Kamiokande"** by Ed Kearns, Boston University, Mass. 3:30 p.m., Bldg. 362, Conference Room F108.

Friday, May 29

Chemistry Division Seminar: **"Hydrocarbon Radical Thermochemistry from Ion-Molecule Reaction Thresholds: Proton and Hydrogen-Atom Transfer"** by Kent M. Ervin, Dept. of Chemistry, University of Nevada, Reno. 10 a.m., Bldg. 200, Conference Room L135.

Chemical Technology and Chemistry Divisions Joint Seminar: **"Automation of ICP-MS Analyses of Actinides and Fission Products in High Level Wastes at the Savannah River Site"** by W. Frank Kinard, College of Charleston, S.C. 10:30 a.m., Bldg. 205, Y-Wing Auditorium.

Physics Division Colloquium: **"Beach Physics: Studies of Wetting and Drag Force in Granular Media"** by Peter Schiffer, University of Notre Dame, Ind. 11 a.m., Bldg. 203 Auditorium.

Monday, June 1

Chemistry Division Monday Morning Seminar Series: **"Solvation Dynamics and Dielectric Friction on Electron Transfer and Other Processes in Solution"** by Mark Maroncelli, Pennsylvania State University, University Park. 11 a.m., Bldg. 200 Auditorium.

Tuesday, June 2

Energy Technology Division Seminar: **"Effects and Measurement of Interstitial Carbon and Nitrogen in Iron and Steel"** by Robert Foley, Illinois Institute of Technology, Department of Mechanical, Materials and Aerospace Engineering, Chicago, Ill. 10:30 a.m., Bldg. 212, Conference Room A157.

Wednesday, June 3

Joint Chemistry and Materials Science Divisions Seminar: **"Electrochemistry on Diamond: Polycrystalline, Single Crystal and Chemically Modified Electrodes"** by John C. Angus, Department of Chemical Engineering, Case Western Reserve University, Cleveland, Ohio. 1:30 p.m., Bldg. 200, Conference Room J183.

High Energy Physics Division Seminar: **"Parton Density Function Uncertainties"** by Walter Giele, Fermilab, Batavia, Ill. 3:30 p.m., Bldg. 362, Conference Room F108.

Friday, June 5

Physics Division Colloquium: **"Deep Inelastic Scattering as a Probe of the Non-perturbative Structure of the Nucleon"** by Anthony W. Thomas, University of Adelaide, Australia. 11 a.m., Bldg. 203, Auditorium.

Additional seminars appear on the Argonne News World Wide Web site:
<http://www.anl.gov/news.html>



What's for lunch?

Menus for the cafeterias at both Argonne sites and the Guest House are at:
<http://www.anl.gov/OPA/local/anlnews.html>

Classified Ads

ARGONNE-WEST

MISCELLANEOUS — Trek T50 Hybrid tandem bicycle, excellent condition, used once. New \$1,599 - asking \$950. Hollie Gilbert, (208) 523-9376.

MISCELLANEOUS

FURNITURE – Desk with return, medium oak, 48x24x26, computer cart, medium oak, 24x26x32, black fabric computer chair. \$150. Beverly Otto, (630) 789-2271.

SLIP – Crinoline slip, white, for wedding gown or formal, size 12. \$25. Beverly Otto, (630) 789-2271.

JET SKI – ’94 Polaris SL 750 with trailer, spare and cover, EC, low hours. \$3,750. Rob Habbe, (815) 838-3444.

MISCELLANEOUS – Playpen. \$10. Baby carrier/bouncer. \$10. Bouncer. \$10. Walker. \$10. Swing. \$15. Infant girl’s clothing, 0-12 months. Xiaoli Liang, (630) 435-5895.

VIDEO CAMERA – Nikon 8mm video camera recorder, model VN320, 5 years old, excellent condition New \$1,000 – Asking \$200. Fred Wysk, (847) 669-2018.

MISCELLANEOUS – Used lawn mower, Lawn Boy with brake blade clutch, runs great. \$75. Scotts drop spreader. \$5. “Zebra” brand putter New \$80 – Asking \$15. Chuck Frazier, (815) 436-3587.

FENCING – Chain link fencing, 300’, 1 year old. \$50. 90, 10’ cedar split rails, 1 year old. \$3 each. 30, 3-hole cedar posts, 1 year old. \$5 each. Theresa Kvitck, (630) 243-1848.

MISCELLANEOUS – Children’s “Tyke Country Cottage” like new, used in toy area inside house. New \$190 – Asking \$75. Children’s wooden rocking chair. \$15. Lucy Stols, (630) 972-1729.

MISCELLANEOUS – 850W microwave. \$70, Aiwa CD-player. \$60. Color TV. \$40. Ladies bicycle. \$30. Pair of halogen study lamps. \$12. Humidifier. \$10. Maura Devine, (630) 241-2681.

TRAILERS – 2 single-axle auto trailers, one tilt wood bed, one metal frame with brackets and tire rack. \$550 each o.b.o. James Fuerstenberg, (847) 394-3952.

COMPUTER EQUIPMENT – Used minitower case (for PC). \$15. New PC speakers, 4w per channel, AC adapter inside. \$10. 386DX mother board. \$5. Victor Tsien, (630) 910-8908.

GOLF CLUBS – Starter set, bag, cart, 6 clubs, right handed. \$40. Spare assorted clubs. 2 for \$5. Al Svirmickas, (708) 633-0545.

MISCELLANEOUS – Swedish stroller, emmalunga, forest green, 3 seating/lying positions, like new. \$149. Wooden crib, full size, golden oak finish, on casters, disassembled, good condition. \$89. New-born car seat insert, “Snuggli”, like new with box. \$10. Dusan Lexa, (630) 637-3889.

FURNITURE – Custom made, 8’, blue velvet, good condition, reduced to \$115. Brass floor lamp. \$25. Tablelamp. \$35. A. DeVolpi (815) 293-0049.

DRYWALL – 4x8’ sheet or 4x12’ sheet of drywall (taping). \$11 each. Tony Rodriguez, (815) 886-0793.

BOOKS – Math, physics, general science, very reasonable. Harvey Rarback, (708) 957-4055.

MOVING SALE – Exerciser, wall units, teak dining room chairs, workbench with vise, granite tabletop, art supplies. No reasonable offer refused. Harvey Rarback, (708) 957-4055.

ANTIQUFURNITURE – Hoosier cabinet, oak dressers, floor lamps, gas lamp, Edison phonograph, dining room table/chairs, plus much more. Sale at 1533 George Street, Downers Grove on Friday, 5/22 and Saturday 5/23. John Kramer, (630) 969-0784

FURNITURE – Sofa Sleeper, extends to queen size bed. \$100. Chair. \$25. Desk, hutch, chair set. \$75. Microwave cart. \$30 4-drawer chest. \$25. All in good condition. M.G. Srinivasan, (630) 963-1898.

FISHING BOAT – 12’ aluminum, V-bottom boat with 10 HP motor. \$350. Penny Wills, (815) 741-4964.

MISCELLANEOUS – Stihl weed eater. \$75. 15’ aluminum extension ladder. \$25. Ladies Columbia 3-speed bike. \$25. Bill Sproule, (708) 923-1838.

Classified ad request forms are available in stockrooms, at the Office of Public Affairs in Building 201, and at Argonne-West’s Building 752, Room D109. The old half-sheet forms are acceptable, but note that the deadline is incorrect. Deadline for classified ads is **5 p.m. Monday**.

Please note: All classified ads appear on Argonne’s World Wide Web site and can be seen by the public.

Requests can be submitted by fax to ext. 2-5274, or by inter-office mail to Evie Fagan, Building 201, Room 2U-09 (OPA-201). A drop-off box is located at the *Argonne News* office, Building 201, room 2Q-02 and at 2U-09.

Request forms must be signed and must include a home phone number. Ads cannot be accepted by phone or electronic mail. Please limit ads to 25 words; longer ads may be edited. Housing listed for sale or rent is available without regard to race, creed, color or national origin.

Argonne-West employees are welcome to submit classified ads to *Argonne News*. Request forms are available at the office of Argonne-West Correspondent Dolores Lagerquist, Building 752, Room D109. When completed, fax the request form to the *Argonne News* office at (630) 252-5274.

AUTOMOBILES

1984 CHEVY – Caprice, 2-door, AC,PB, PW & seat, top shape inside and out. \$1,695 o.b.o. Paul Kurpis, (630) 971-1322.

1985 VOLKSWAGON – GTI, 5-speed, hatchback, AM/FM cassette, Pirelli tires, garage kept, one owner, 130K miles, excellent condition. \$900 o.b.o. Arthur Wicklund, (773) 327-4829.

1996 CHEVROLET- Caprice Classic LT1, V8 engine, power sun roof, CD, AT, all options, 37K miles. \$18,000. Fred Brewer, (815) 372-3030.

1990 FORD- Tempo GL, 4-door, PL, AC, cruise control, AM/FM cassette, 66K miles, great condition with new tires and battery. \$3,100. Christopher Johnson, (630) 983-2203.

1997 NISSAN – Sentra XZ, 4-door, 5K miles, AT, AC, PB, PS, AM/FM cassette, excellent condition. \$11,900. Guoren Bai, (630) 357-7207.

1990 GEO – Storm 20, 89K miles, AM/FM cassette, sun roof. \$2,600. Gian Preosti, (847) 537-4119.

1989 CAPRICE – Station wagon, excellent condition, single owner. \$4,500 o.b.o. Saurin Majumdar, (630) 961-0725.

1989 NISSAN – 240SX, 2-door hatchback, AT, AC, PS, 36K miles. \$5,000. Maura Devine, (630) 241-2681.

1995 JAGUAR – XJS V12 Coupe, 2-door, sapphire with tan leather interior, 30K miles, mint condition. \$38,400. Stephanie A. Chesney, (630) 241-7996.

1994 MITSUBISHI – Galant, silver, 4-door, AT, PW, PDL, cruise control, dual airbags, AC, power antenna, 70K miles, garage kept. \$10,000 o.b.o. Claude Reed, (630) 739-0392.

1987 CHRYSLER – New Yorker, 69K miles, fully loaded, excellent condition. \$4,400. Dennis Tussing, (630) 969-3231.

1988 FORD – Crown Victoria, 4-door, light gray, fully loaded, new tires and battery. \$2,800. Penny Wills, (815) 741-4964.

1988 PONTIAC – Grand AM, 2-door, AC, PS, PB, AM/FM cassette, cruise control, tilt, 69K miles, one owner, no rust, excellent condition. \$3,500. Terry Menozzi, (815) 838-8813.

1997 GEO – Tracker, 4-door, brand new, 200 miles, AC, PS, AM/FM cassette, duel air bags. \$12,500. Rich Vitt, (708) 422-7792.

1991 PONTIAC – Grand AM LE, PW, PL, PS, PB, AC, AT, quad 4 engine, good condition, 70K miles. \$4,200. Jacquie Habenicht, (815) 834-1422.

1993 MITSUBISHI – Diamante wagon, gold, metallic, AT, V6, premium sound system w/CD, all extras. Sale due to move abroad. \$9,000 Christian Bischof, (630) 515-9413 or c_bischof@acm.org.

1988 FORD – F-150 super cab truck, 8’ bed w/ liner, matching Leer bed cap, AC, AM/FM, AT w/ overdrive, cruise, Star Craft customized, towing package. \$5,900. Douglas Parini Sr., (815) 744-5501.

1993 FORD – Probe GT, PS, PB, PDL, PW, power sunroof, 5-speed, recent clutch & brakes. \$7,200. Joe Tomczak, (630) 681-0620.

1976 PONTIAC – Catalina, 4-door, 65K miles, good running condition. \$800 o.b.o. Rose Lee Pausche, (630) 739-0126.

1990 MERCURY – Cougar LS, AT, AC, PS, PB, PW, PDL, alarm, cruise control, electronic dash. AM/FM cassette. \$4,500 o.b.o. Phil McNamara, (708) 388-5437.

1986 CHEVROLET – C10 Pick up, 4-speed, AC, AM/FM cassette, 8’ bed, bed liner. \$1,500 o.b.o. Phil McNamara, (708) 388-5437.

HOUSING

CONDO/SALE – Naperville condo, fully upgraded, lease option available, must sell, leaving for Texas. \$124,900. Allen Sylvan, (630) 778-8643.

HOUSE/SALE – New Lenox, 3 bedroom, 1 bath ranch with 2-car attached garage, 14 years old, wooded backyard nice street, excellent schools. \$139,000. Mary Donovan, (815) 485-5553.

CONDO/RENT – Westmont, 1 bedroom, 1 bath. Gas, water, swimming pool included, vacant. \$650. Ruth Chen, (630) 789-1194.

LOT/SALE – Lake of the Ozarks. \$17,500. Todd Trotter, (630) 261-9750.

TIMESHARE/SALE – Austria. \$6,500 & exchangeable. Todd Trotter, (630) 261-9750.

ROOM/RENT – 5 miles from Argonne, clean. \$450. Soenke Seifert, (630) 325-0497.

LOT/SALE – 706 Mack Street, Joliet, Cathedral area, mature trees. \$22,500. Kimberly Herman Perona, (815) 723-8509.

HOUSE/SALE – 708 Mack Street, Joliet, cathedral area, brick bungalow, 2 bedrooms, 1 remodeled bath, full finished basement, additional bedroom, CA, freshly painted. \$115,000. Kimberly Herman Perona, (815) 723-8509.

CONDO/RENT – Downers Grove, Lake-in-the-Woods, 2 bedrooms, 1.5 baths, 5th floor, washer/dryer, secure building, inside parking, available June 1, includes gas, heat & water. \$875/month. Julie Cramer, (630) 325-9698.

HELP WANTED

HELP WANTED - Cafeteria needs summer help, high school seniors or older may apply, for application and interview call Marianne Gappa, 2-5225.

WANTED

HOUSE/RENT – New to area family needs 3 bedroom, 2-bath home, good schools, convenient to lab, for long term rent in mid-August. Rob Connatser, (630) 663-4852.

BELL – Hand-held school bell, any condition. George Dusatko, (708) 778-4016.

CAMPING – Used camping equipment. Claude Reed, (630) 739-0392.

FEMALE BOWLERS – Ladies of all ages, averages for bowling league, teams forming up now for this fall, Wednesday nights, 6:45 p.m., Lemont Lanes. Michael Doll, (630) 435-0520.

CHILD CARE – Mature, kid loving person to care for a 4-month old boy, approximately 1:45 p.m. to 4:45 p.m., weekdays, your home or ours, Joliet/Plainfield area. Mark Sreniawski, (815) 439-6720.

INSTRUCTORS – Tai Chi and/or yoga instructor(s). Katie Nobles, (815) 740-6339.

TO BE GIVEN AWAY

GUINEA PIG – Long-haired guinea pig and cage, to a good home. Rich Raffanetti, (630) 960-2049.

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